| Inde | x of | Claims | 5 |
|------|------|--------|---|
|      |      |        |   |

| Application No.    | Applicant(s)    |  |
|--------------------|-----------------|--|
| 09/505,989         | SUETSUGU ET AL. |  |
| Examiner           | Art Unit        |  |
| Michael C. Zarroli | 2839            |  |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  | , |
|---|--------------|---|
| ı | Interference | • |

Michael C. Zarroli

| A | Appeal   |
|---|----------|
| o | Objected |

|          |                            | ш.   |              |  |              |               | ı              |              |  |                 |
|----------|----------------------------|--|--------------|--|--------------|---------------|----------------|--------------|--|-----------------|
|          |                            | ·  |              |  |              |               |                |              |  | $\overline{}$   |
| Cla      | im                         | L  |              |  | [            | Date          |                |              | _  |                 |
| Final    | Original                   | 3/14/04  |              |  |              |               |                |              |  |                 |
| _        | 1<br>2<br>3<br>4<br>5      | =  |              |  |              |               |                |              |  |                 |
|          | 2                          |  | _            |  |              |               |                |              |  | П               |
|          | 3                          |  |              |  |              | _             |                |              |  |                 |
|          | 4                          |  | _            | $\vdash$   | _            |               |                |              |  | П               |
|          | 5                          |  | _            | $\overline{}$                                    |              |               |                |              |  | Н               |
|          | 6                          |  |              |  |              | _             | _              |              |  | П               |
|          | 7                          |  |              |  |              |               |                |              |  |                 |
|          | 7                          |  |              |  |              |               |                |              |  |                 |
|          | 9                          |  |              |  |              |               |                |              |  |                 |
|          |                            |  |              |  |              |               |                |              |  |                 |
|          | 10<br>11<br>12             |  |              |  |              |               |                |              |  |                 |
|          | 12                         |  |              |  |              |               |                |              |  |                 |
|          | 13<br>14<br>15<br>16<br>17 |  |              |  |              |               |                |              |  |                 |
|          | 14                         | =  | _            |  |              |               | ــــا          | Ш            |  | Ш               |
| L        | 15                         |  | _            | L_   | L_           | L_            |                | Ш            | <u>L</u>   | Щ               |
|          | 16                         | =  | L.           | <u> </u>   | L_           | L_            | Щ              | Щ            | <u> </u>   | Ш               |
|          | 17                         | =  |              |  |              |               |                |              |  | Ш               |
|          | 18<br>19                   | =  |              |  |              | _             |                |              |  | Ш               |
|          | 19                         |  |              |  |              |               | _              |              | _  | Н               |
|          | 20                         |  |              | -  |              | -             |                |              | -  | Н               |
|          | 21<br>22                   | $\vdash$   | <u> </u>     | ├  | ⊢            | ⊢             | -              |              |  | H               |
|          | 23                         |  | ⊢            | ⊢  | ⊢            | $\vdash$      | -              |              |  | Н               |
|          | 24                         | <del>                                     </del> | $\vdash$     |  | $\vdash$     |               |                | -            | _  | $\vdash$        |
|          | 24<br>25                   |  |              | H  |              |               | Ι              | Т            | $\vdash$   |                 |
|          | 26                         |  |              | T  |              |               |                |              |  |                 |
|          | 27                         |  |              |  |              |               |                |              |  |                 |
|          | 28                         |  |              |  |              |               |                |              |  |                 |
|          | 29                         |  |              |  |              |               |                |              |  |                 |
|          | 30                         |  |              |  |              |               |                |              | <u> </u>   |                 |
| <u> </u> | 31                         | _  |              | ļ  | <u> </u>     | <u> </u>      |                |              | _  |                 |
| <u> </u> | 32<br>33                   | <u> </u>   | <u> </u>     | <del> </del>                                     |              | $\vdash$      | $\vdash$       | _            | <del>  -</del>                                   | Щ               |
| <u></u>  | 33                         |  | ├-           | ├—   | <del> </del> |               | <u> </u>       | $\vdash$     |  | $\vdash \vdash$ |
|          | 34<br>35                   | -  | <u> </u>     | $\vdash$   | $\vdash$     | $\vdash$      | $\vdash$       | $\vdash$     | ├  | $\vdash\vdash$  |
| $\vdash$ | 36                         | $\vdash$   |              | -  | $\vdash$     | -             |                | $\vdash$     | ┢  | $\vdash \vdash$ |
| -        | 37                         | -  | <del> </del> | <del>  -</del>                                   |              |               | $\vdash$       | <del> </del> | ├─   | Н               |
| $\vdash$ | 38                         | -  | -            | <del>                                     </del> | $\vdash$     | <del> -</del> | $\vdash$       | $\vdash$     |  | Н               |
|          | 39                         | Т  |              |  | Г            | ┢             | $\vdash$       | Т            | <del>                                     </del> | Н               |
|          | 40                         |  |              | Г  |              | Π             |                |              |  |                 |
|          | 41                         |  |              |  |              |               |                |              |  |                 |
|          | 42                         |  |              |  | 匚            |               |                |              |  | Ш               |
| <u> </u> | 43                         |  |              | _  | _            | <u> </u>      | <u> </u>       | <u> </u>     | <u> </u>   | Ш               |
|          | 44                         |  | <u>L</u>     | L_   | L            | <u> </u>      | <u> </u>       | <u> </u>     | _  | Ц               |
|          | 45                         | <u> </u>   | <u> </u>     |  | _            | <u> </u>      | <u> </u>       | _            | 1_   | Ц               |
|          | 46                         | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>     | ├-            | <del>  -</del> | _            | ₩  | Н               |
|          | 47                         | <del> </del>                                     | -            | -  | -            |               | <u> </u>       |              | $\vdash$   | $\vdash \vdash$ |
| -        | 48<br>49                   | $\vdash$   | ⊢            |  | -            | <del> </del>  | $\vdash$       |              | ├  | $\vdash \vdash$ |
| -        | 50                         | ╁  | $\vdash$     |  | -            | $\vdash$      | $\vdash$       | -            | -  | H               |
|          |                            |  |              |  |              |               |                |              |  |                 |

| Cla      | im_      |          |              |          |          | ate      | )        |          |  | _        |
|----------|----------|----------|--------------|----------|----------|----------|----------|----------|--|----------|
|          |          |          |              |          |          |          |          |          |  |          |
| Final    | Original |          |              |          |          |          |          |          |  |          |
|          | 51       |          |              |          |          |          |          |          |  |          |
|          | 52<br>53 |          |              |          |          |          |          |          |  |          |
|          | 53       |          |              |          |          |          |          |          |  |          |
|          | 54       |          |              |          |          |          |          |          |  |          |
|          | 55       |          |              |          |          |          |          |          |  |          |
|          | 56       |          |              |          |          |          |          |          |  |          |
|          | 57       |          |              |          |          |          |          |          |  | _        |
|          | 58       |          |              |          |          |          |          |          | _  |          |
|          | 59       |          |              |          |          |          |          |          |  |          |
|          | 60       | _        |              |          |          |          |          |          |  |          |
|          | 61       |          |              |          |          |          |          |          |  |          |
| -        | 62       |          |              | -        | -        | -        |          | -        |  |          |
| -        | 63<br>64 | $\vdash$ |              | $\vdash$ | $\vdash$ |          |          |          |  |          |
| -        | 65       |          | $\vdash$     | $\vdash$ | <u> </u> | -        | _        |          |  |          |
| -        | 66       |          | H            |          | $\vdash$ | -        |          |          |  |          |
|          | 67       |          |              | $\vdash$ | -        |          |          |          |  |          |
| -        | 68       |          |              |          |          |          |          | _        |  |          |
|          | 69       |          |              | _        |          |          |          |          |  |          |
|          | 70       |          |              |          |          |          |          |          |  |          |
|          | 71       |          |              |          |          |          |          |          |  |          |
|          | 71<br>72 |          |              |          |          |          |          |          | П  |          |
|          | 73       |          |              |          |          |          |          |          |  | -        |
|          | 74       |          |              |          |          |          |          |          |  |          |
|          | 75       |          |              |          |          |          |          |          |  |          |
|          | 76<br>77 |          |              |          |          |          |          |          | <u> </u>   |          |
|          | 77       |          | _            |          |          |          |          |          | _  |          |
|          | 78       |          | _            |          | $\vdash$ |          |          | _        | <u> </u>   | _        |
| <u> </u> | 79       | _        |              | $\vdash$ |          |          |          |          | $\vdash$   | _        |
| -        | 80       | <u> </u> |              | <u> </u> | H        |          |          |          | -  | _        |
| -        | 81       |          |              | <u> </u> | _        |          |          |          | $\vdash$   | -        |
| -        | 82<br>83 | H        | <del> </del> |          | $\vdash$ |          | H        |          | $\vdash$   | $\vdash$ |
|          | 84       | H        | ├            | ├─       | $\vdash$ | $\vdash$ | <u> </u> |          |  | -        |
|          | 85       | $\vdash$ | -            | -        | H        | H        | Ь.       |          |  |          |
|          | 86       |          |              | $\vdash$ | $\vdash$ | Н        | Т        | <u> </u> | <del>                                     </del> |          |
|          | 87       |          | _            | $\vdash$ |          |          | $\Box$   |          |  |          |
|          | 87<br>88 |          |              |          | Г        | П        |          |          |  | Г        |
|          | 89       |          |              |          |          |          |          |          |  |          |
|          | 90       |          |              |          |          |          |          |          |  |          |
|          | 91       |          |              |          | $\Box$   |          |          |          | L  | Ĺ        |
|          | 92       |          | L            | <u> </u> |          | L        | _        |          | <u> </u>   | _        |
|          | 93       | L_       | <u> </u>     | <u></u>  | <u> </u> | L_       | <u> </u> | <u> </u> | <u> </u>   | L        |
|          | 94       | <u> </u> | <u> </u>     | <u> </u> | <u> </u> | <b> </b> | _        | <u> </u> |  | _        |
| <u> </u> | 95       | <u> </u> | <u> </u>     | <u> </u> | ļ        |          | <u> </u> | <u> </u> |  | _        |
| <u> </u> | 96       | <u> </u> |              | <u> </u> | <u> </u> |          | <u> </u> | <u> </u> | <u> </u>   | _        |
| <u> </u> | 97       | <u> </u> | <b> </b>     | ļ        | -        | L        | _        | _        | <u> </u>   | <u> </u> |
| <u> </u> | 98<br>99 | <u> </u> | <del> </del> | ├        |          | $\vdash$ | _        | $\vdash$ | $\vdash$   | -        |
| -        | 100      | ├-       | $\vdash$     | $\vdash$ |          | H        | -        | -        | -  | -        |
| 1        | 1 100    |          |              |          |          |          |          |          |  |          |

|       |            |  |          |  |  |          | _        |               |          |          |
|-------|------------|--|----------|--|--|----------|----------|---------------|----------|----------|
| Cla   | aim        |  |          |  | ַ  | Date     | _        |               |          |          |
| Final | Original   |  |          |  |  |          |          |               |          |          |
|       | 101<br>102 |  |          |  |  |          |          |               |          |          |
|       | 102        |  |          |  |  |          |          |               |          |          |
|       | 103        |  |          |  |  |          | <u> </u> |               |          |          |
|       | 104<br>105 |  |          |  |  |          | _        | _             |          |          |
|       | 105        |  |          |  | _  |          |          |               |          |          |
| -     | 106<br>107 |  |          |  | $\vdash$   |          |          |               |          | $\dashv$ |
|       | 107        |  |          | -  | _  | _        |          |               |          | $\dashv$ |
|       | 109        | -  | -        | $\vdash$   |  | H        |          |               |          | $\dashv$ |
|       | 110        | _  | _        | $\vdash$   |  |          |          |               |          |          |
|       | 111        |  |          |  |  |          |          |               |          |          |
|       | 112        | -  |          |  |  |          |          |               |          |          |
|       | 112<br>113 |  |          |  |  |          |          |               |          |          |
|       | 114<br>115 |  |          |  |  |          |          |               |          |          |
|       | 115        |  |          |  |  |          | _        |               | _        |          |
|       | 116        |  |          |  | _  | _        |          |               |          |          |
|       | 117<br>118 | _  |          |  |  | <u> </u> |          |               |          |          |
|       | 119        | _  | _        | $\vdash$   | $\vdash$   |          | _        | _             |          | -        |
|       | 120        | -  |          | -  |  | $\vdash$ | _        | _             |          |          |
|       | 120<br>121 |  |          |  |  |          | $\vdash$ |               |          |          |
|       | 122        | -  | -        |  |  |          | ┢        | $\vdash$      |          |          |
|       | 123        |  |          |  |  | _        | ┢        | $\overline{}$ |          |          |
|       | 123<br>124 |  |          |  |  |          |          |               |          |          |
|       | 125        |  |          |  |  |          |          |               |          |          |
|       | 126        |  |          |  |  |          |          |               |          |          |
|       | 127        |  |          | _  | _  |          | _        | ļ             |          | Щ        |
|       | 128<br>129 | <u> </u>   | _        | _  | _  |          |          |               |          |          |
|       | 130        | <del> </del>                                     | <u> </u> | -  | _  |          | $\vdash$ | -             | -        |          |
|       | 131        | ├  | $\vdash$ | $\vdash$   | -  |          | $\vdash$ |               | -        | -        |
|       | 131<br>132 | H  |          | <u> </u>   |  | _        |          | -             | $\vdash$ | Н        |
|       | 133        | H  |          |  | <del>                                     </del> | $\vdash$ | -        |               |          | Н        |
|       | 134        | $\vdash$   |          |  | Г  | $\vdash$ |          |               |          | П        |
|       | 135        |  |          |  |  |          |          |               |          |          |
|       | 136        |  |          |  |  |          |          |               |          |          |
|       | 137        | _  |          | $ldsymbol{ld}}}}}}$ |  |          | _        | <u> </u>      | L_       | Ш        |
|       | 138        |  | <u> </u> | ļ  |  |          | _        | <u> </u>      | ļ        | Ш        |
|       | 139<br>140 | _  | _        | _  |  |          |          | _             | <u> </u> | Н        |
|       | 141        | -  | -        | ⊢  | _  |          |          | ├             |          |          |
|       | 142        |  | -        | $\vdash$   |  |          | $\vdash$ |               | ├─       | Н        |
|       | 143        | <del>                                     </del> | $\vdash$ | H  | -  | -        | -        | $\vdash$      | $\vdash$ | H        |
| -     | 144        | <u> </u>   | Н        | <del>                                     </del>   | <del>                                     </del> | <u> </u> |          | <del> </del>  | $\vdash$ | Н        |
|       | 145        |  |          |  |  |          |          | Г             |          |          |
|       | 146        |  |          |  |  |          |          |               |          |          |
|       | 147        |  |          |  |  |          |          | 匚             |          |          |
|       | 148        | <u> </u>   | L        | <u> </u>   | lacksquare                                       |          | _        | <u> </u>      | L        | Ш        |
|       | 149        | L  | _        | <u> </u>   | <u> </u>   | L        | <u> </u> | lacksquare    | <u> </u> | Щ        |
|       | 150        | L  | <u></u>  | <u> </u>   | <u> </u>   | <u> </u> | L_       | L             | L        | Ш        |
|       |            |  |          |  |  |          |          |               |          |          |